APPENDIX G

BIG PINEY LABARGE CAP AREA SOILS TECHNICAL REPORT

SOILS TECHNICAL REPORT

Soils information, gathered for the CAP area, is included in a report available at the BLM Pinedale Resource Area and Rock Springs District Offices. The soils information for the report is derived from three previous soil surveys within the CAP. The Big Piney - LaBarge survey (1984) covers the eastern half of the CAP area while two Riley Ridge Project surveys, Bio/West (1982) and ERT (1982), cover the western half. The CAP includes about 20 percent of the Riley Ridge study area. Extensive use was made of the Soil/Vegetation/Reclamation Technical Report (May 1983) from this project.

Because these three surveys were mapped by different contractors, there are discrepancies in quality and correlation of mapping units where the surveys join. The Riley Ridge Technical Report correlates Bio/West to ERT mapping units as well as possible. (See these correlations at the beginning of the Soils Characteristics Table.) As in all Order 3 soil surveys, the soils lines and components are variable and are designed for large scale planning purposes such as a CAP. Site specific investigation is prescribed for more detailed information, especially in the Bio/West surveyed area.

The CAP soils report identifies 100 separate soil series, correlates them to a soils map, and describes the soil characteristics. Characteristics described for each soils series include range site, depth, texture, pH, salinity, and susceptibility to wind and water erosion. The report also describes suitability to various uses (e.g., roadfill, reservoir, shallow excavations, etc.) and management considerations (suitability to reclamation, susceptibility to erosion, etc.). This information was key in developing the erosive soils map (Map 4). A second map, Map 5, entitled Special Management Areas Due To Slope, has been prepared. This map shows those soils which are highly erosive and occurring on slopes equal/greater than 10 percent. The map also shows the location of all slopes equal/greater than 25 percent. This soils and slope information will be used as a tool in planning access routes and well pads, building stock reservoirs, developing reclamation prescriptions, and designing vegetation treatments within the CAP area. Due to the length and technical nature of the report, it is not included as part of this document.

Refer to the Big Piney-LaBarge CAP Technical Soils Report for soils interpretations. Also refer to the three soil survey reports contained in the Riley Ridge EIS Soils/Vegetation/Reclamation Technical Report from which this information is derived.

The Big Piney-LaBarge CAP Soils Technical Report includes the following information for soils interpretations:

- Criteria Used To Establish Suitability For Roadfill
- Criteria To Establish Suitability Of Topsoil For Drastically Disturbed Lands
- Criteria Used To Establish Suitability For Pond Reservoir Area
- Criteria Used To Establish Suitability For Shallow Excavations
- Soil Use And Management Considerations
- Pinedale CAP Soils Identification Legend
- Pinedale CAP Series Correlation - Map Unit
- Glossary And Explanation Of Terms
- Pinedale CAP Soils Characteristics
- Pinedale CAP Soils Use Ratings And Limitations
- Maps, 1:24,000 scale, of soils mapping units (separate from document)